

ABSTRACT OF THE DISCLOSURE

A method of configuring a preamble of a downlink frame for synchronization in data frame transmission of a 60GHz a wireless local area network system, the method comprising arranging a short preamble having a plurality of repetitive S symbols, and an IS symbol, and arranging a long preamble having a long cyclic prefix (CP) and a plurality of L symbols for frame synchronization and symbol timing by performing auto-correlation according to the length of window of the auto-correlation.